

What is claimed is:

1. A seal ring comprising a tube-shaped, elastic part having a leading-in opening at its low end for an ink supply needle, wherein the top of the leading-in opening is provided with a top sealing film and the top sealing film has a crack connecting the leading-in opening and the space above the top sealing film.
5
2. The seal ring of claim 1, wherein the leading-in opening has a narrower opening having a diameter smaller than that of the ink supply needle.
3. The seal ring of claim 2, wherein the narrower opening is formed by rings which are axially raised at the low end of the tube-shaped, elastic part.
10
4. The seal ring of claims 1, 2, or 3, wherein the top of the tube-shaped, elastic part is provided with a symmetric support, one end of the support is located in the internal wall, and the other end of the support is around the top sealing film.
5. The sealing of claim 4, wherein the surface on which the crack locates overlaps with the symmetric surface of the support.
15
6. An ink cartridge comprises an ink outlet which supplies ink from an internal ink chamber, wherein the ink outlet is provided with a seal ring, the seal ring comprises a tube-shaped, elastic part, the external wall of the elastic part tightly connects with the internal wall of the ink outlet, and the low end of the elastic part is provided with a leading-in opening for an ink supply needle; wherein the top of the leading-in opening is provided with a top sealing film, and the top sealing film has a crack connecting the leading-in opening and the space above the top sealing film.
20
7. The ink cartridge of claim 6, wherein the leading-in opening has a narrower opening having a diameter smaller than that of the ink supply needle.
8. The ink cartridge of claim 7, wherein the narrower opening is formed by rings which are axially raised at the low end of the tube-shaped, elastic part.
25
9. The ink cartridge of claims 6, 7, or 8, wherein the top of the tube-shaped,

elastic part is provided with a symmetric support, one end of the support is located in the internal wall and the other end of the support is around the top sealing film.

10. The ink cartridge of claim 9, wherein the surface on which the crack locates overlaps with the symmetric surface of the support.